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MAY 08 2023

OFFICE OF
WATER

PAID

MAY 08 2023

Ck#

2408

Rec't#

05-08-23

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8760-3</u> (office use only)	Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion</u>	
	Newspaper <u>Vermillion PlainTalk</u> (fri) <u>624-2695</u>	
	<u>Yankton Daily Press & Dakotan</u> <u>665-7811</u>	

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____

(Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

1. Name to Appear on Irrigation Permit Bottolfson Brothers

Note: The "Name to Appear on Irrigation Permit" must be the name in which the property to be irrigated is held in.

Mailing Address 46003 Timber Rd Vermillion SD 57069
(Address) (City) (State) (Zip Code)Phone _____ Mobile 605-677-9582 Email bottolfson64@hotmail.com2. Amount of water claimed 2.22*CFS or 1000**GPM ***AF Total Acreage 172
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)3. Source of water supply Ground water (1 well)4. Location of point of diversion 1 well in SWNE T93N R52W S24
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

County _____

5. County or counties where water will be used Clay6. Annual period during which water is to be used May 1 - September 307. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
NWNE T93N R52W S24	38	NWSE T93N R52W S24	37
NENE T93N R52W S24	25	NESE T93N R52W S24	16
SWNE T93N R52W S24	30		
SENE T93N R52W S24	26		

8. Give a description of the project. (Attach sheet if more space is needed)

1 well in SWNE T93N R52W S24 to supply water to a center pivotI, Mark Bottolfson
Name of PersonOwner / Partner, the applicant, certify under
Title (if applicable)

penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

Supplemental Information

(type or print)

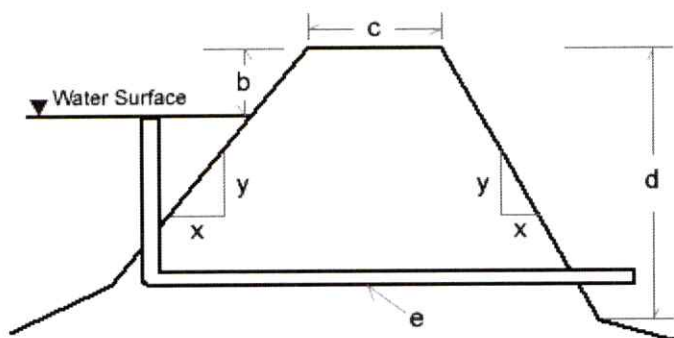
1. Well Information (check one or both as applicable) ☒ Drilling new well(s) ☐ Using existing well(s)a) If new wells, how many 1 Have test holes been drilled ☒ Yes ☐ No Drilled by Heine Electric + Irrigation
(if yes, please provide copies of logs)b) If existing wells, how many Provide copy of log(s), if available. Drilled by

For either Existing or Proposed Wells:

c) Well Depth (required) ~120 Depth to Top of Water Bearing Material ~93 Depth to Water from Surface ~70d) Distance to nearest domestic well on applicant's property N/A Property owned by others NO**2. Wastewater Disposal System Information**a) Type of System (i.e. septic tank, drain field) b) System Capacity (gallons) Year Constructed c) Connected to the City of Sanitary System**3. Dugout Information**a) Surface Dimensions Depth b) Depth to water (ground surface to water level) **4. Water Storage Dams**

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

b) Freeboard c) Crest Width Crest Length d) Height e) Primary Outlet Capacity If pipe, diameter f) Secondary Spillway Capacity Spillway Width

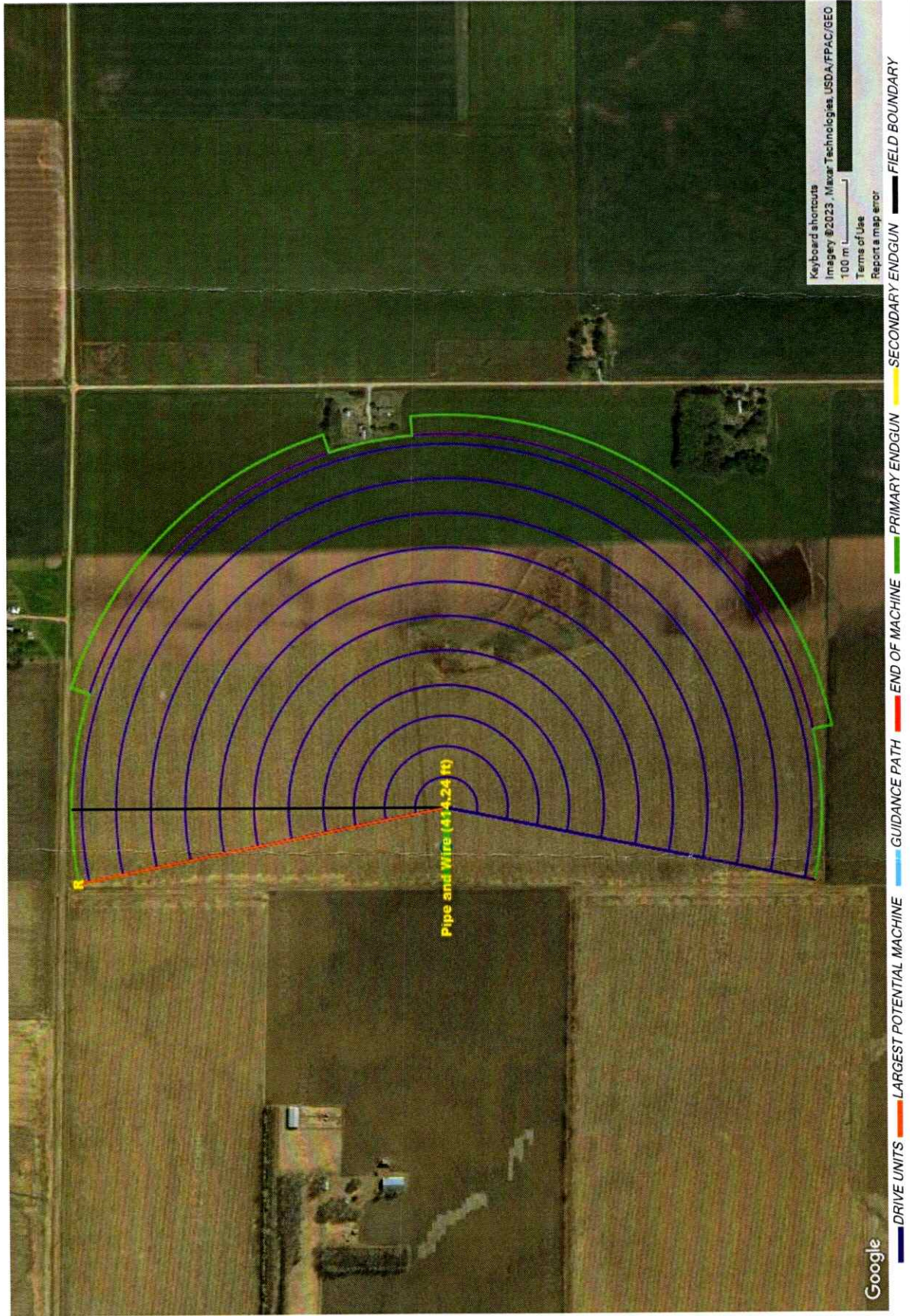
g) X & Y Slope (e.g. 3 to 1 is a typical slope)

Upstream Downstream h) Surface Area of Impoundment i) Storage Acre Feetj) Drainage Area Above Dam Acres



Project Name - Mark Bottolfsun - Macy Ferris WW
Version Name - Mark Bottolfsun - Macy Ferris WW, Version

Map Summary Report - Bottolfsun - West WW



HEINE ELECTRIC & IRRIGATION - 307 S. Robinson Ave, Hartington, NE, 68739-5139, United States



Water Well Completion Reports

SEARCH WELLS
Help

DRILLERS
Tools

PUMP INSTALLERS

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Search

312th St

SWNE T93N R52W S24

463rd Ave

X Proposed well

T093N R052W S23

T093N R052W S24

HWY 19

T093N R052W S26

T093N R052W S25

Streets

Show Search Results

8760-3

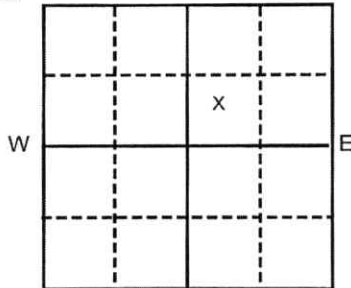
SD EForm - 1621LD V1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW 1/4 NE 1/4 Sec 24 Twp 93N Rg 52WCounty CLAY

North

Please mark well
location with an "X"

Well Completion Date

4-28-2023

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
ft. from _____ (identify source)

PROPOSED USE:

☐ Domestic/Stock ☐ Municipal ☐ Business ☒ Test holes
☐ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

ROTARY

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	5.25 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Groutwell DF	65	Lb/gal	1 Ft	116 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

TREMME

SCREEN:

☐ Perforated pipe ☐ Manufactured

Diameter _____ Inches Length _____ Feet

Material _____

Slot Size _____ Set From _____ Feet to _____ Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ Yes ☒ No

If so, what material? _____

Describe packer(s) and location _____

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?☒ No, Why Not?Lab to which water
quality sample sent for analysis

TEST HOLE

Well Owner: MARK BOTTOLFFSON

Business Name: _____

Address: 46003 TIMBER RDCity, State, Zip: VERMILLION SD 57069

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOP SOIL	0	3
GLACIAL TILL	3	15
GRAY SANDY CLAY	15	78
FINE GRAY SAND WITH CLAY	78	85
FINE TO MEDIUM SAND	85	93
FINE TO MEDIUM SAND & GRAVEL	93	116

STATIC WATER LEVEL

FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe: _____☐ Bailed☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

LATITUDE: 42.860929

LONGITUDE: -96.9328

ELEVATION: 1196

RECEIVED

JUL 06 2023

OFFICE OF
WATERThis well was drilled under license # 810 and this
report is true and accurate.Drilling firm: HEINE ELECTRIC & IRRIGATION, INC.

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: 7-6-23

TEST HOLE WELL LOG SUPPLEMENT

Zip:

Location: 1-23

050
20'

2B
5-2